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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/737,240	12/16/2003	Allen David Hertz	6355		
31877	7590 08/08/2005		EXAMINER		
ALLEN D. HERTZ 12784 TULIPWOOD CIRCLE BOCA RATON, FL 33428		1	EDMONDSON, LYNNE RENEE		
			ART UNIT	PAPER NUMBER	
	•		1725		
			DATE MAILED: 08/08/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicat	ion No.	Applicant(s)				
Office Action Summary		10/737,2	240	HERTZ ET AL.				
		Examine	r	Art Unit				
		-	dmondson	1725				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
THE MAILIN - Extensions of after SIX (6) M - If the period for If NO period for Failure to reply Any reply rece	NED STATUTORY PERIOD FOR IG DATE OF THIS COMMUNICATION OF THIS COM	CATION. of 37 CFR 1.136(a). In no e unication. o) days, a reply within the sta tutory period will apply and will, by statute, cause the ap	vent, however, may a satutory minimum of thir will expire SIX (6) MOI plication to become Al	reply be timely filed ty (30) days will be considered timely NTHS from the mailing date of this co BANDONED (35 U.S.C. § 133). timely filed, may reduce any	mmunication.			
Status	•			us 1/	1/18			
1)⊠ Resno	onsive to communication(s) file	3 l d on 2≰ May 2005		Uac 1	1			
	This action is FINAL . 2b) This action is non-final.							
3)☐ Since	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of	Claims							
4a) Of 5)	(s) <u>21-41</u> is/are pending in the the above claim(s) is/are (s) is/are allowed. (s) <u>21-40</u> is/are rejected. (s) is/are objected to. (s) are subject to restrict	e withdrawn from co						
Application Pa	pers							
10)⊠ The dr Applica Replac	ecification is objected to by the awing(s) filed on 10 December ant may not request that any objectement drawing sheet(s) including ath or declaration is objected to	:2003 is/are: a)⊠ a tion to the drawing(s) the correction is requi	be held in abeya	nce. See 37 CFR 1.85(a). ı(s) is objected to. See 37 CF	R 1.121(d).			
Priority under 3	35 U.S.C. § 119							
12)	wledgment is made of a claim f b) Some * c) None of: Certified copies of the priority of Certified copies of the priority of Copies of the certified copies of application from the Internation attached detailed Office action	documents have be documents have be of the priority docum nal Bureau (PCT Ru	en received. en received in A nents have beer ule 17.2(a)).	Application No received in this National	Stage			
Attachment(s)								
2) Notice of Dra 3) Information D	erences Cited (PTO-892) ftsperson's Patent Drawing Review (P isclosure Statement(s) (PTO-1449 or I Mail Date		Paper No(Summary (PTO-413) s)/Mail Date Informal Patent Application (PTC)-152)			

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DETAILED ACTION

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 21-40 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 6, 8-10, 12, 13 and 15-19 of U.S. Patent No. 6662812 B1. Although the conflicting claims are not identical, they are not patentably distinct from each other because both teach an method of printing solder and cleaning the stencil by wiping and applying vibrational energy (instant claims 1 and 4 and '812 claims 6, 10, 12 and 15). However the terminology is slightly different and there is no disclosure of ultrasonic vibration. Fluid is applied to the paper used in the process and vacuum is applied (instant claims 3-7 and '812 claims 8, 9 and 16-19).

It would have been obvious to one of ordinary skill in the art at the time of the invention that the target is the circuit board and that the printable medium is solder.

Ultrasonic vibration is well known and conventional in the art for both cleaning, drying and solder sphere placement.

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Claim Rejections - 35 USC § 102

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3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

4. Claims 21-31, 35, 36, 39 and 40 are rejected under 35 U.S.C. 102(e) as being anticipated by Nanjyo et al. (USPN 5860361).

Nanjyo teaches an apparatus and method of cleaning a stencil after screen printing by applying fluid and vibration (col 2 lines 1-10, lines 47-60, col 4 lines 45-58 and col 5 line 9 – col 6 line 23).

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 21-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Asai et al. (USPN 5988060).

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Asai teaches an apparatus and method of cleaning a stencil after screen printing (col 16 lines 35-50) by wiping with wet paper (col 28 lines 51-67 and col 41 lines 25-35) and applying ultrasonic vibration through air (col 26 line 58 – col 27 line 10) and the washing fluid. Fluid and vacuum are applied (col 27 lines 11-52 and col 37 lines 8-27). The apparatus comprises mechanisms for aligning areas, placing solder, cleaning the stencil and applying vibrational energy through air or a fluid medium (col 16 lines 35-50 and col 26 line 58 – col 3 line 65). However there is no disclosure of using vibrational energy to dry the stencil.

It would have been obvious to one of ordinary skill in the art at the time of the invention that vibration or shaking is an obvious variation of drying with air jets.

Response to Arguments

7. Applicant's arguments with respect to claims 1-20 have been considered but are moot in view of the new ground(s) of rejection and cancellation of the claims.

Conclusion

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lynne Edmondson whose telephone number is (571) 272-1172. The examiner can normally be reached on Monday through Thursday from 6:30 a.m. to 5 p.m.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Dunn can be reached on (571) 272-1171. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Lynne Edmondson
Primary Examiner
Art Unit 1725

LRE